

### **Abstract**

An electrophoretic inorganic porous material, electrophoresis apparatus and method for analyzing a biological sample using the electrophoretic inorganic porous material are described. The electrophoretic inorganic porous material is an inorganic separating media that has a plurality of pores in which molecules from the biological sample (e.g., amino acids, proteins, nucleic acids, DNA) migrate during an electrophoresis process. There are disclosed two embodiments of the electrophoretic inorganic porous material including a porous glass and a sol gel monolith.